

Single-Phase String Inverters 3 kW to 3.68 kW

> Residential, Solar Inverters



Zeverlution Series 3000SE/3680SE

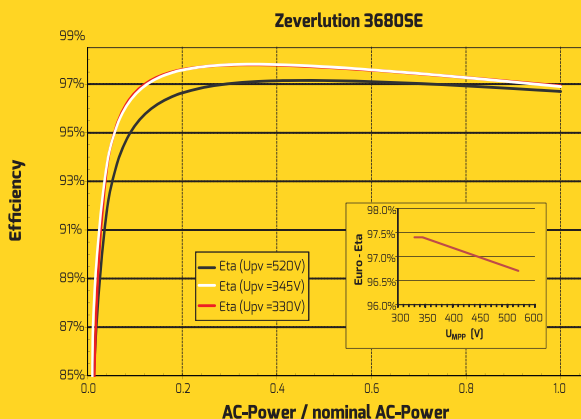
Introduction

The Zeverlution inverter generation combines all aspects of our beliefs into simple, reliable and affordable PV inverters. By introducing a patented inverter topology we used less power electronic components for further increased reliability. At the same time we have reduced the weight of the inverter by nearly 50%, making it even simpler to install and use. An increased efficiency of 97.8% makes the use of PV systems even more affordable. Furthermore you can retrofit Ethernet and WiFi communication, whenever you want, our Zeverlution series.

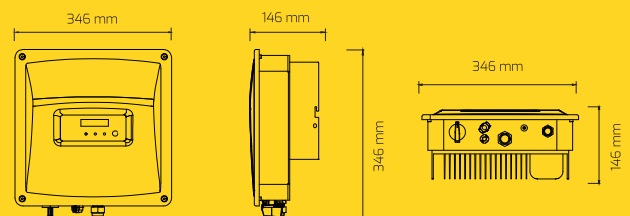
Features

- Extremely lightweight with only 7.3 kg
- Compact design with IP65 casing for outdoor use
- Sunclix connectors for toolless DC wiring
- Higher power yield with efficiency of 97.8%
- Compatible with smart modules and DC optimizers
- Optional and retrofitable integrated Ethernet and Wi-Fi communication
- Support remote firmware update

Conversion efficiency



Dimensions



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Technical data	Zeverlution 3000SE	Zeverlution 3680SE
Input (DC)		
DC convertible power (@cosφ=1)	3450W	3720W ²⁾
Max. input voltage	600V ²⁾	
MPP voltage range / rated input voltage	330-520V / 345V	
Min. start voltage	110V	
Min. feed-in power	8.5W	
Max. input current per MPPT	11A	
Number of MPPTs	1	
Number of independent MPP inputs	1	
Output (AC)		
Rated active power	3000W	3680W
Max. apparent AC power	3300VA	3680VA
Nominal AC voltage / range	220,230,240V / 180-280V	
AC power frequency / range	50,60 / +5Hz	
Rated power frequency / rated grid voltage	50Hz / 230V	
Max. output current	16A	
Power factor (@rated power)	1	
Adjustable displacement power factor	0.8 inductive ... 0.8 capacitive	
Feed-in phases / connection phases	1 / 1	
Harmonic distortion (THD) at rated output	< 3%	
Efficiency		
Max. efficiency / European weighted efficiency	97.8% / 97.4%	97.8% / 97.4%
MPPT efficiency	99.50%	99.50%
Protective devices		
DC isolator	○	
PV iso / Grid monitoring	● / ●	
DC reverse polarity protection / AC short-circuit current capability	● / ●	
GFCI function	●	
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)	
General data		
Interface ¹⁾ : RS485 / Ethernet / WIFI	● / ○ / ○	
Display	16 x 2 characters	
Dimensions (W x H x D)	346 x 346 x 146mm	
Weight	7.3kg	
Cooling concept	convection	
Noise emission (typical)	< 25 dB(A)@1m	
Installation	indoor & outdoor	
Mounting information	wall mounting bracket	
DC connection technology	SUNCLIX	
AC connection technology	screw clamp terminal	
Operating temperature range	-25°C...+60°C / -13°F...+140°F	
Relative humidity (non-condensing)	0% ... 100%	
Max. operating altitude	4000m (>3000m derating)	
Degree of protection (according to IEC 60529)	IP65	
Climatic category (according to IEC 60721-3-4)	4K4H	
Topology	H5	
Self-consumption (night)	< 1W	
Standby power	8.5W	
Certificates and approvals (more available on request)	CE, IEC62109-1, IEC62109-2, AS/NZS3100, VDE-AR-N 4105, AS4777.2, AS4777.3, NEN50438, G83/2, NBT32004(CQC)	CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, NEN50438, G83/2

● standard ○ optional – not available

1) Optional and retrofitable ComBox (ETH or ETH & WiFi configuration) will replace RS485 port functionality
2) Can be higher for panels with DC optimizers, please use Zeverplan for configuration

As of July, 2015 / Technical data is subject to revisions.